

What Is Claimed Is:

1. A method of connecting a fuel group to a power group in a fuel injector comprising:  
 manufacturing a fuel group including:  
 providing a fuel tube assembly having a longitudinal axis extending  
 therethrough;  
 installing an orifice plate on the fuel tube assembly, the orifice plate  
 having at least one opening disposed away from the longitudinal axis;  
 rotating at least one of the power group and the fuel group such that the at least  
 one opening is disposed at a predetermined angle relative to a reference point on the power  
 group;  
 installing the fuel group in a power group, the power group having a generally  
 axially extending dielectric overmold and a power connector extending generally radially  
 therefrom; and  
 fixedly connecting the fuel group to the power group.
2. The method according to claim 1, wherein the fixedly connecting is performed by  
 welding.
3. The method according to claim 1, wherein, prior to rotating, a position of the at least one  
 opening relative to the power connector is identified by optical sighting.
4. The method according to claim 1, wherein rotating the power group comprises engaging  
 the power connector and rotating the power connector about the longitudinal axis.
5. A method of connecting a fuel group to a power group in a fuel injector comprising:  
 manufacturing a fuel group including:  
 providing a fuel tube assembly having a longitudinal axis extending  
 therethrough;  
 installing an orifice plate on the fuel tube assembly, the orifice plate  
 having at least one opening disposed away from the longitudinal axis;

providing a power group having a generally axially extending dielectric overmold and a power connector extending generally radially therefrom;

rotating the power group relative to the fuel group such that the at least one opening is disposed a predetermined angle from the power connector relative to the longitudinal axis;

after rotating at least one of the power group and the fuel group, installing the fuel group in the power group; and

fixedly connecting the fuel group to the power group.

6. The method according to claim 5, further comprising, after installing the fuel group in the power group, verifying the at least one opening is disposed at the predetermined angle from the power connector relative to the longitudinal axis.

7. The method according to claim 5, wherein the fixedly connecting is performed by welding.

8. The method according to claim 5, wherein, prior to rotating, a position of the at least one opening relative to the power connector is identified by optical sighting.

9. The method according to claim 5, wherein rotating the power group comprises engaging the power connector and rotating the power connector about the longitudinal axis.